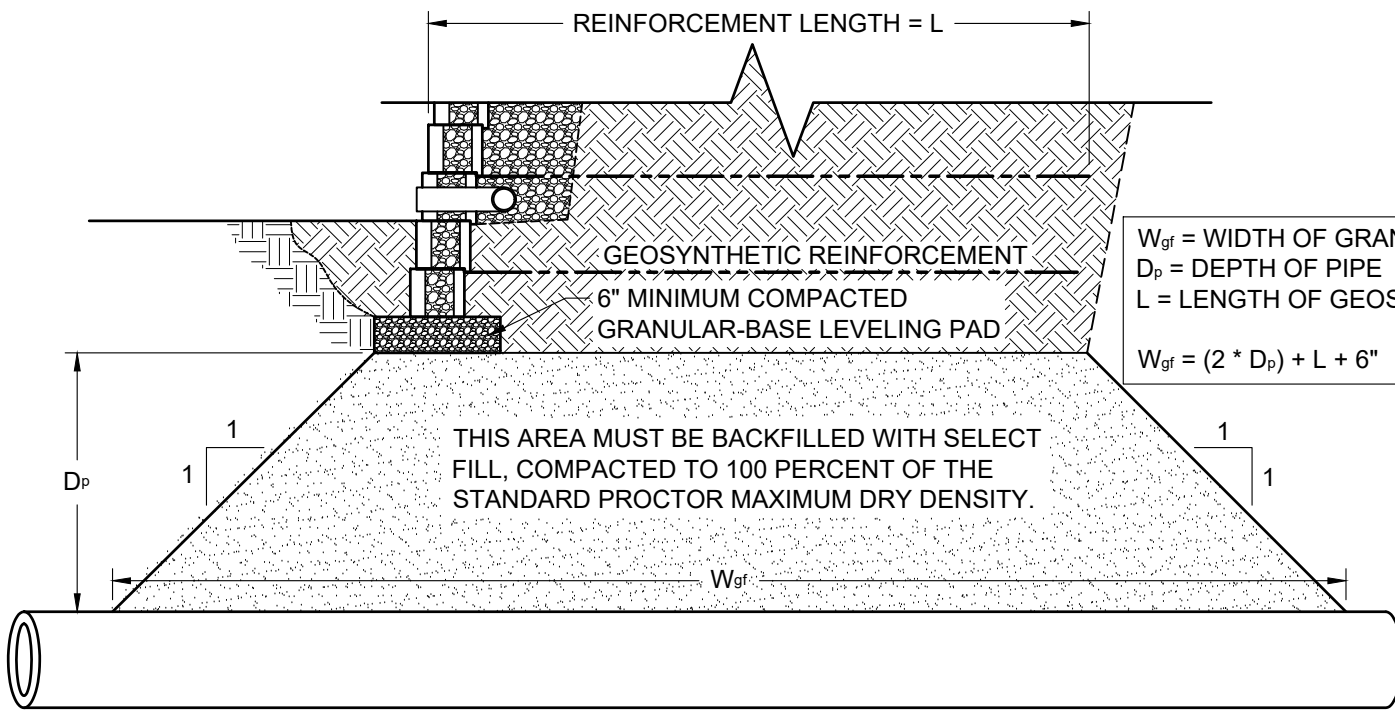


UTILITIES (DESIGNED BY OTHERS)

ANY DISTURBANCE OF THE SOILS OUTSIDE THE 1:1 EXCAVATION AREA MUST ALSO BE FILLED WITH SELECT FILL

THIS AREA MUST BE BACKFILLED WITH SELECT FILL, COMPACTED TO 100 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.



REINFORCEMENT LENGTH = L

GEOSYNTHETIC REINFORCEMENT

6" MINIMUM COMPACTED GRANULAR-BASE LEVELING PAD

$W_{gf}$  = WIDTH OF GRANULAR FILL  
 $D_p$  = DEPTH OF PIPE  
 $L$  = LENGTH OF GEOSYNTHETIC REINFORCEMENT  
 $W_{gf} = (2 * D_p) + L + 6"$

THIS AREA MUST BE BACKFILLED WITH SELECT FILL, COMPACTED TO 100 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.